03050107-020

(North Tyger River)

General Description

Watershed 03050107-020 is located in Spartanburg County and consists primarily of the upper ***North Tyger River*** and its tributaries. The watershed occupies 22,375 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Cataula series. The erodibility of the soil (K) averages 0.27, and the slope of the terrain averages 12%, with a range of 2-40%. Land use/land cover in the watershed includes: 53.0% forested land, 27.3% agricultural land, 15.4% urban land, 2.0% water, 1.6% scrub/shrub land, and 0.7% barren land.

Jordan Creek, which was impounded to create Lake Cooley, drains into the North Tyger River along with several unnamed tributaries. There are several ponds and lakes (totaling 214.3 acres) in this watershed used for recreational purposes and 31.9 stream miles, all classified FW.

Water Quality

Station #	Type	Class	Description
B-348	W	FW	LAKE COOLEY IN FOREBAY NEAR DAM
B-315	S	FW	TRIBUTARY TO N. TYGER RIVER AT ROAD BELOW JACKSON #2 EFFLUENT
B-219	S	FW	NORTH TYGER RIVER AT US 29, 7.2 MI W OF SPARTANBURG

North Tyger River (B-219) - Aquatic life uses are not supported due to occurrences of zinc in excess of the aquatic life acute standards; both high concentrations of zinc were measured in 1995. There are also significant decreasing trends in dissolved oxygen concentration and pH and a significant increasing trend in turbidity. Recreational uses are not supported due to fecal coliform bacteria excursions.

Lake Cooley (B-348) - Lake Cooley is a 330-acre impoundment on Jordan Creek in Spartanburg County, with a maximum depth of approximately 39 feet (12.0 m) and a mean depth of 4.0 feet (1.2 m). Lake Cooley's watershed comprises approximately 10 square miles (27 km2). Aquatic life uses are partially supported due to pH excursions. Recreational uses are fully supported.

Unnamed Tributary to the North Tyger River (B-315) - Aquatic life uses are fully supported. There is a significant decreasing trend in pH. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are not supported due to fecal coliform bacteria excursions.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM / ***FACILITY NAME*** / ***PERMITTED FLOW @ PIPE (MGD)***	***NPDES#*** / ***TYPE*** / ***LIMITATION***
NORTH TYGER RIVER SSSD/BUCKEYE FOREST WWTP PIPE #: 001 FLOW: 0.06	SC0000957 MINOR DOMESTIC EFFLUENT
NORTH TYGER RIVER AMERITEX YARN/SPARTANBURG PLT PIPE #: 001 FLOW: M/R	SCG250147 MINOR INDUSTRIAL EFFLUENT
NORTH TYGER RIVER LEIGH FIBERS, INC. PIPE #: 001 FLOW: M/R	SCG250170 MINOR INDUSTRIAL EFFLUENT
LAKE COOLEY VULCAN MATERIALS CO./LYMAN QUARRY PIPE #: 001 FLOW: M/R	SCG730056 MINOR INDUSTRIAL EFFLUENT
NORTH TYGER TRIBUTARY JACKSON MILLS/WELLFORD PLT PIPE #: 001 FLOW: 0.05 WQL FOR DO,TRC,NH3N	SC0001716 MINOR DOMESTIC WATER QUALITY

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME / ***FACILITY TYPE***	***PERMIT #*** / ***STATUS***
WELLFORD LANDFILL DOMESTIC	DWP-078 (421001-1101) ACTIVE
OLD WELLFORD LANDFILL DOMESTIC	DWP-012 CLOSED
SPARTANBURG COUNTY C&D LANDFILL C&D LANDFILL	421001-1201 ----------
SPARTANBURG COUNTY LANDFILL DOMESTIC	421001-1202 ----------
MESSER MIRROR LANDFILL INDUSTRIAL	IWP-196 ----------

Mining Activities

MINING COMPANY / ***MINE NAME***	***PERMIT #*** / ***MINERAL***
VULCAN MATERIAL CO. LYMAN QUARRY	0587-83 GRANITE

Growth Potential

There is a high potential for industrial, commercial, and residential growth in this watershed, which contains the Town of Duncan. The I-85 corridor runs through the watershed connecting the Cities of Greer and Spartanburg. There are also industrial developmental pressures along U.S. Hwy. 29. The Town of Duncan is expected to serve as a bedroom community for the Greer-Spartanburg area.